	Application No.	Applicant(s)
Notice of Allowability	10/815,061	CHAUDHURI ET AL.
	Examiner	Art Unit	
	Khanh B. Pham	2166	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed 1/24/2007*.

2. ☒ The allowed claim(s) is/are *1-27, 94-133 (Re-numbered as 1-67)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

          International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

      Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20070419* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mr. Stephen Siu on April 19, 2007.

The application has been amended as follows:

In the claims:

Claims 6-7, 9, 15 and 23 have been amended as follows:

6.   The computer-readable media of claim 1 wherein when a ~~slave~~ database object

in the second subset dominates the associated ~~master~~ database object in the first

subset, one of either the database object in the first subset or the database object in the

second subset ~~slave or master database objects~~ is eliminated from the corresponding

subset.

7.   The computer-readable media of claim 1 wherein the partial order specification

module inputs a partial order criterion comprising ~~partial order criterion comprises~~ a

conjunction of one or more transitive inequality conditions.

9.   A method that selects a subset of database objects from a plurality of database

objects having associated attributes comprising:

        accessing two or more database objects from the plurality of database

objects, wherein the database objects comprise database statements from a database

workload;

        inputting a partial order criterion for at least one attribute associated with

the two or more database objects;

        applying the partial order criteria to the two or more database objects to

identify at least one master database object, the at least one master database object

dominating at least one other database object in the plurality of database objects;

        identifying a subset of master database objects that are dominated by at

least one other database object in the plurality of database objects;

        generating a subset of database objects including the identified master

database objects dominating at least one other database object in the plurality of

database objects minus the subset of master database objects that are dominated by at

least one other database object in the plurality of database objects; and

        outputting the generated subset of database objects.

15.   One or more computer readable media having computer-executable instructions

stored thereon for selecting a subset of a plurality of database objects having

associated attributes, the instructions comprising:

inputting a partial order criterion for an attribute to determine a master database object in the plurality of database objects that dominates at least one aassociated slave database object in the plurality of database objects, wherein the database objects comprise database statements from a database workload; and

applying the partial order criterion to the database object attributes to identify a first subset of database objects and a second subset of database objects in the plurality of database objects, the first subset including master database objects and the second subset including associated slave database objects;

eliminating all slave database objects that do not dominate their associated master database object from the second subset to obtain a modified second subset of database objects;

generating a third subset of the plurality of database objects including the first subset of database objects and the modified second subset of database objects; and

outputting the third subset of the plurality of database objects.

23.   An apparatus for selecting a subset of database objects from a plurality of database objects having associated attributes comprising:

at least one processor;

a component for accessing two or more database objects from the plurality of database objects;

a component for inputting a partial order criterion for at least one attribute associated with the two or more database objects;

a component for applying the partial order criteria to the two or more database objects to identify at least one master database object, the at least one master database object dominating at least one other database object in the plurality of database objects, wherein the database objects comprise database statements from a database workload;

a component for identifying a subset of master database objects that are dominated by at least one other database object in the plurality of database objects;

a component for generating a subset of database objects including the identified master database objects dominating at least one other database object in the plurality of database objects minus the subset of master database objects that are dominated by at least one other database object in the plurality of database objects; and

a component for outputting the generated subset of database objects.

Allowable Subject Matter

2.   Claims 1-27, 94-133 are allowed. (Re-numbered as 1-67)

3.   The following is an examiner's statement of reasons for allowance:

Prior art of record do not teach the combination of the claimed elements including "combining the first subset of database objects and the third subset of database objects to generate the summarized workload" as recited in claim 1, nor "generating a subset of database objects including the identified master database objects dominating at least one other database object in the plurality of database object minus the subset of master

database object that are dominated by at least one other database object in the plurality

of database object" at recited in claims 9, 23, "generating a third subset of the plurality

of database objects including the first subset of database objects and the modified

second subset of database objects" recited in claims 15.

Conclusion

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-

4116. The examiner can normally be reached on Monday through Friday 7:30am to

4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Khanh B. Pham
Primary Examiner
Art Unit 2166

April 19, 2007